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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/695,643	10/29/2003	Tomohiro Takamatsu	032057	5393
38834 75	90 04/06/2005	·	EXAM	INER
WESTERMAN, HATTORI, DANIELS & ADRIAN, LLP 1250 CONNECTICUT AVENUE, NW			ERDEM, FAZLI	
			ART UNIT	PAPER NUMBER
SUITE 700 WASHINGTO	WASHINGTON, DC 20036			-
			DATE MAILED: 04/06/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/695,643	TAKAMATSU ET AL.				
Office Action Summary	Examiner	Art Unit				
-	Fazli Erdem	2826				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet wi	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, and if NO period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by standard patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may a real. In the statutory minimum of thirtheriod will apply and will expire SIX (6) MON that the cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 1	8 January 2005.					
2a)☐ This action is FINAL . 2b)⊠	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 4) Claim(s) 1-32 is/are pending in the applicate 4a) Of the above claim(s) 17-32 is/are with 5) Claim(s) 9-16 is/are allowed. 6) Claim(s) 1,3,5 and 8 is/are rejected. 7) Claim(s) 2,4,6 and 7 is/are objected to. 8) Claim(s) are subject to restriction are 	drawn from consideration.					
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the cor		• •				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the priority docum application from the International But * See the attached detailed Office action for a	nents have been received. Idents have been received in Appriority documents have been reau (PCT Rule 17.2(a)).	pplication No received in this National Stage				
Attachment(s)	 .					
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) 	Paper No(s	ummary (PTO-413))/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/SB. Paper No(s)/Mail Date 	/08) 5) ☐ Notice of In 6) ☐ Other:	formal Patent Application (PTO-152) —·				

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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 9-16 allowed.
- 2. Claims 2, 4, 6 and 7 objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1, 3, 5 and 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Natori et al. (2003/0021079) in view of Nam (2003/0057464) further in view of Yang et al. (2001/0051381).

Regarding Claims 1, 3, 5 and 8, Natori et al. disclose a ceramic film and manufacturing method therefor, ferroelectric capacitors, semiconductor devices and other devices where in Fig. 2 and Claim 33, is disclosed a ferroelectric capacitor comprising a lower electrode, a ceramic film which is formed on the lower electrode and includes first crystals and second crystals and and upper electrode formed on the ceramic film where the first crystals have a PZT type perovskite structure where the second crystals are ABO-type oxides in which Si is provided in a B site. Natori et al. fail to disclose the required adhesive/insulating layer structure and the required ferroelectric/Iridium

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structure. However, Nam discloses a ferroelectric memory device and method of fabricating the same where in claim 1, the required adhesive layer/insulating layer structure is disclosed. Furthermore, Yang et al. disclose a method for manufacturing a ferroelectric memory where in paragraph 15, the required ferroelectric/Iridium structure is disclosed.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required adhesive layer/insulating layer and the ferroelectric/Iridium structure in Natori et al. as taught by Nam and Yang et al. respectively, in order to have a semiconductor memory structure with increased performance.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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FE

April 1, 2005

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